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CONSTRUCTIVE OCCLUSION WITH A TRANSMISSIVE COMPONENT

Abstract of the Disclosure

Constructive occlusion type lighting systems utilize a reflective mask to cover a portion of an active optical surface, typically a Lambertian surface formed by the aperture of a diffusely reflective cavity, in order to distribute radiant energy with a tailored intensity distribution. Adjustment of the parameters of the constructive occlusion system enables the system designer to tailor the system performance to a wide range of applications. As disclosed herein, the constructive occlusion type distribution is combined with a diffuse distribution of a transmissive component, emitted through a wall of the system. For example, a diffusely reflective wall of the cavity may also be partially transmissive, to allow some energy to pass through and provide an additional illumination component, while continuing to maintain the characteristics to support the constructive occlusion component.